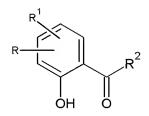
DRAWINGS

REPLACEMENT SHEET



R ²
CH ₃
-CH ₂ CH ₃
CH ₂ R
CH ₂ Aryl

Figure 1. Hydroxyaryl Alkyl Ketone MMP Inhibitors

$$R^{1}$$
 $QH = Q$ $QH = Q$

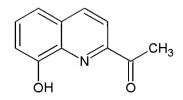
R ²
Н
CH ₃
CH ₂ R

Figure 2. Hydroxy Acetophenone and Hydroxy Propiophenone MMP Inhibitors

$R, R^{1}, R^{2}, R^{4}, R^{5}$	R ³
Н	CH ₃
CH ₃	-CH ₂ CH ₃
Alkyl	CH ₂ R
Cycloalkyl	CH ₂ Aryl
Aryl	
CI	
Br	
NH ₂	
-NHAlkyl	
-N(Alkyl) ₂	
-OH	
-SH	

Figure 3. Hydroxyaryl Alkyl Ketone MMP Inhibitors with Additional Cyclic Rings

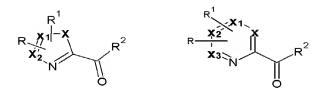
REPLACEMENT SHEET



2,4 - Dihydroxy Acetophenone

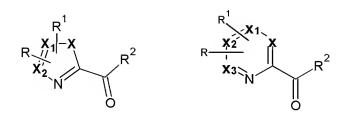
2 - Acetyl - 8 - Hydroxyquinoline

Figure 4. 2,4- Dihydrox Acetophenone and 2-Acetyl-8-Hydroxyquinoline MMP Inhibitors



R,R ¹	R ²	x,x ₁ ,x ₂ ,x ₃
Н	CH ₃	CH ₂
CH ₃	-CH ₂ CH ₃	CH
Alkyl	Alkyl	0
Cycloalkyl	Aryl	S
Aryl	Cycloalkyl	N
CI		
Br		
NH ₂		
-NH ⁻ Alkyl		
-N(Alkyl) ₂		
-ОН		
-SH		

Figure 5. Five & Six Membered N-Heterocyclic Alkyl Ketone MMP Inhibitors



R,R ¹	R ²	X, X ₁ , X ₂ , X ₃
Н	CH ₃	CH ₂
CH ₃		СН
Alkyl		0
Cycloalkyl		S
Aryl		N
CI		
Br		
NH ₂		
-NH ⁻ Alkyl		
-N(Alkyl) ₂		
-OH		
-SH		

Figure 6. 2-Acetyl Substituted N-Heterocyclic MMP Inhibitors

R^2	$x, x_1, x_2, x_3, x_4, x_5$
CH ₃	CH ₂
-CH ₂ CH ₃	СН
Alkyl	0
Aryl	S
Cycloalkyl	NH
	-CH ₂ CH ₃ Alkyl Aryl

Figure 7. N-Heterocyclic Alkyl Ketone MMP Inhibitors with Additional Cyclic Rings

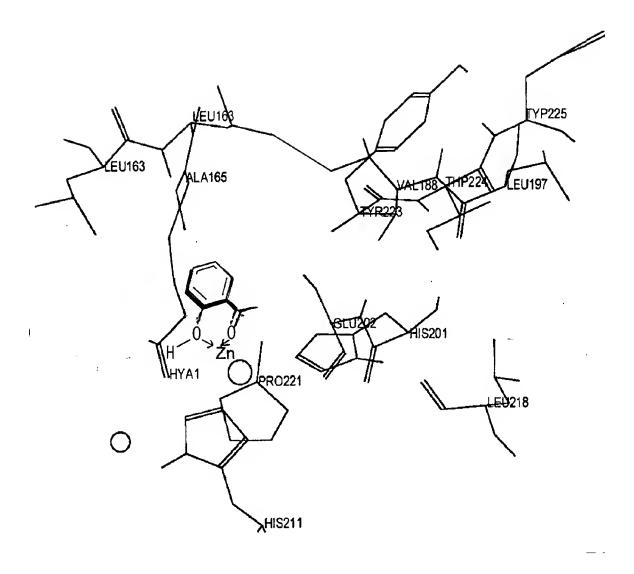


Figure 8. Proposed Inhibition of the Active-Site of MMP by Hydroxyaryl Alkyl Ketones